Index of Authors

Adams, M.R. *see* Jones, C.R.
Addeo, F. *see* Gatti, M.
Aketagawa, J. *see* Fujikawa, H.
Aldsworth, T.G., Dodd, C.E.R. & Stewart, G.S.A.B. Induction of *rpoS* in *Salmonella typhimurium* by nutrient-poor and depleted media is slower than that achieved by a competitive microflora, 255
Alexa, P. *see* Čižek, A.
Altieri, C. *see* Massa, S.
Alviano, C.S. *see* Seldin, L.
Alviano, D.S. *see* Seldin, L.
Andrew, R. *see* Ferrandis, M.D.
Arrieta, J. *see* Hernández, L.
Arroyo, G. *see* Préstamo, G.
Atrache, V. *see* Meyrand, A.
Austin, B. *see* Daskalov, H.
Austin, D.A. *see* Daskalov, H.
Ayres, H.M., Furr, J.R. & Russell, A.D. An evaluation of the suitability of the European suspension test to reflect *in vitro* activity of antiseptics against clinically significant organisms, 13

Babb, J.R. *see* Payne, D.N.
Ball, H.J. *see* Grant, I.R.
Barton, M.D. *see* Vanniasinkam, T.
Batmaz, H. *see* Carli, K.T.
Bavai, C. *see* Meyrand, A.
Beattie, S.H. & Williams, A.G. Detection of toxigenic strains of *Bacillus cereus* and other *Bacillus* spp. with an improved cytotoxicity assay, 221
Béchet, M. *see* Coisne, S.
Bell, P.J.L. *see* Vincent, S.F.
Bell, R.G. *see* Moorhead, S.M.
Bennett, A.R., MacPhee, S., Betts, R. & Post, D. Use of pyrrolidonyl peptidase to distinguish *Citrobacter* from *Salmonella*, 175
Bennik, M.H.J., van Overbeek, W., Smid, E.J. & Gorris, L.G.M. Biopreservation in modified atmosphere stored mungbean sprouts: the use of vegetable-associated bacteriocinogenic lactic acid bacteria to control the growth of *Listeria monocytogenes*, 226
Betts, R. *see* Bennett, A.R.
Bissinger, P. *see* Vincent, S.F.
Blair, I.S. *see* McMahon, C.M.M.
Blondeau, R. *see* Coisne, S.
Bogan, B.W., Lamar, R.T., Burgos, W.D. & Tien, M. Extent of humification of anthracene, fluoranthene, and benzo[α]pyrene by *Pleurotus ostreatus* during growth in PAH-contaminated soils, 250
Bonass, W.A. *see* Pridmore, A.M.
Boon, P.I. & Cattanach, M. Antibiotic resistance of native and faecal bacteria isolated from rivers, reservoirs and sewage treatment facilities in Victoria, south-eastern Australia, 164
Bradley, C.R. *see* Payne, D.N.
Bridge, P.D. *see* Kouvelis, V.N.
Bridge, P.D. *see* Zare, R.
Burgos, W.D. *see* Bogan, B.W.

Caballero, P. *see* Ferrandis, M.D.
Cahill, M.E. *see* Szabo, E.A.
Cantiani, L. *see* Carducci, A.
Carducci, A., Gemelli, C., Cantiani, L., Casini, B. & Rovini, E. Assessment of microbial parameters as indicators of viral contamination of aerosol from urban sewage treatment plants, 207
Carli, K.T., Sen, A., Batmaz, H. & Kennerman, E. Detection of IgG antibody to Bovine Leukaemia Virus in urine and serum by two enzyme immunoassays, 416
Carroll, C. *see* Smith, P.
Casini, B. *see* Carducci, A.
Cattanach, M. *see* Boon, P.I.
Chamberlain, A.H.L. *see* Jones, C.R.
Chamberlain, A.H.L. *see* McMath, S.M.
Chang, Y.J. & Tseng, S.K. A novel double-membrane system for simultaneous nitrification and denitrification in a single tank, 453
Chard, J. *see* Russell, D.
Chaudri, A.M. *see* Lawlor, K.
Chaumont, J.P. *see* Friedrich, J.
Chen, Y. *see* Montville, T.J.
Chikindas, M.L. *see* Montville, T.J.
Chilvers, K.F., Reed, R.H. & Perry, J.D. Phototoxicity of Rose Bengal in mycological media–implications for laboratory practice, 103
Chitte, R.R., Nalawade, V.K. & Dey, S. Keratinolytic activity from the broth of a feather-degrading thermophilic *Streptomyces thermoviolaceus* strain SD8, 131
Chung, H.-J. *see* Montville, T.J.
Ciani, M. & Fatichenti, F. Selective sugar consumption by apiculate yeasts, 203
Čižek, A., Alexa, P., Literák, I., Hamřik, J., Novák, P. & Smola, J. Shiga toxin-producing *Escherichia coli* O157 in feedlot cattle and Norwegian rats from a large-scale farm, 435
Coisne, S., Béchet, M. & Blondeau, R. Actinorhodin production by *Streptomyces coelicolor* A3(2) in iron-restricted media, 199
Colin, P. *see* Soumet, C.
Connerton, I.F. *see* Connerton, P.L.

Connerton, P.L. & Connerton, I.F. Identification of a gene encoding an immuno-reactive membrane protein from *Campylobacter jejuni*, 233
Cook, D.W. *see* McCarthy, S.A.
Côrte-Real, M. *see* Fernandes, L.
Cosmao-Dumanoir, V. *see* Ferrandis, M.D.
Coutinho, H.L.C. *see* de Oliveira, V.M.
Couto, J.A. & Hogg, T. Spacer 2 region and 5S rDNA variation of *Wolbachia* strains involved in cytoplasmic incompatibility or sex-ratio distortion in arthropods, 23

Dalsgaard, A., Forslund, A. & Fussing, V. Traditional ribotyping shows a higher discrimination than the automated RiboPrinter™ system in typing *Vibrio cholerae* 01, 327
Daskalov, H., Austin, D.A. & Austin, B. An improved growth medium for *Flavobacterium psychrophilum*, 297
Davies, W.P. *see* Gandee, C.M.
de Freire Bastos, M.C. *see* Seldin, L.
de Oliveira, V.M., Coutinho, H.L.C., Sobral, B.W.S., Guimarães, C.T., van Elsas, J.D. & Manfio, G.P. Discrimination of *Rhizobium tropici* and *R. leguminosarum* strains by PCR-specific amplification of 16S-23S rDNA spacer region fragments and denaturing gradient gel electrophoresis (DGGE), 137
Delanoue, A. *see* McMath, S.M.
Depaola, A. *see* McCarthy, S.A.
Desmarchelier, P. *see* Fegan, N.
Devine, D.A. *see* Pridmore, A.M.
Dey, S. *see* Chitte, R.R.
Dhillon, J.K., Drew, P.D. & Porter, A.J.R. Bacterial surface display of an anti-pollutant antibody fragment, 350
Dodd, C.E.R. *see* Aldsworth, T.G.
Doherty, A.M. *see* McMahon, C.M.M.
Drew, P.D. *see* Dhillon, J.K.
Drouin, P. *see* Soumet, C.
Dykes, G.A. & Withers, K.M. Increased levansucrase production by a genetically modified *Acetobacter diazotrophicus* strain in shaking batch cultures, 45

Edmondson, A.S. *see* Xiong, R.
Ermel, G. *see* Soumet, C.
Esteves, A.L. *see* Lilenbaum, W.

Fatichenti, F. *see* Ciani, M.
Federici, F. *see* Petruccioli, M.
Fegan, N. & Desmarchelier, P. Shiga toxin-producing *Escherichia coli* in sheep and pre-slaughter lambs in eastern Australia, 335
Fernandes, L., Côrte-Real, M. & Leão, C. A peculiar behaviour for cell death induced by weak carboxylic acids in the wine spoilage yeast *Zygosaccharomyces bailii*, 345
Ferrandis, M.D., Andrew, R., Porcar, M., Iriarte, J., Cosmao-Dumanoir, V., Lecadet, M.-M., Caballero, P. & Ferré, J. Characterization of *Bacillus thuringiensis* serovar *bolivia* (serotype H63), a novel serovar isolated from the Bolivian high valleys, 440
Ferré, J. *see* Ferrandis, M.D.
Fletcher, P. & Logan, N.A. Improved cytotoxicity assay for *Bacillus cereus* diarrhoeal enterotoxin, 394
Fonberg-Broczek, M. *see* Préstamo, G.
Fornasari, M.E. *see* Gatti, M.
Forslund, A. *see* Dalsgaard, A.
Friedrich, J., Gradisar, H., Mandlin, D. & Chaumont, J.P. Screening fungi for synthesis of keratinolytic enzymes, 127
Fujikawa, H., Aketagawa, J., Nakazato, M., Wauke, T., Tamura, H., Morozumi, S. & Itoh, T. Growth of moulds inoculated into commercial mineral water, 211
Fung, D.Y.C. *see* Kang, D.H.
Furr, J.R. *see* Ayres, H.M.
Fussing, V. *see* Dalsgaard, A.

Gabhainn, L.P. *see* Smith, P.
Galvin, M., Hill, C. & Ross, R.P. Lacticin 3147 displays activity in buffer against Gram-positive bacterial pathogens which appear insensitive in standard plate assays, 355
Gandee, C.M., Harrison, S.P. & Davies, W.P. Genetic characterization of naturally occurring *Rhizobium meliloti* populations and their potential to form effective symbioses with lucerne, 169
Ganguli, A. & Tripathi, A.K. Resistance of heat-shocked cells of *Listeria monocytogenes* to mano-sonication and mano-thermo-sonication, 76
Gatti, M., Fornasari, M.E., Mucchetti, G., Addeo, F. & Neviani, E. Presence of peptidase activities in different varieties of cheese, 368
Gemelli, C. *see* Carducci, A.
Gerwig, G.J. *see* Stark, R.M.
Goffredo, E. *see* Massa, S.
Gorris, L.G.M. *see* Bennik, M.H.J.
Gradisar, H. *see* Friedrich, J.
Grant, I.R., Ball, H.J. & Rowe, M.T. Effect of higher pasteurization temperatures, and longer holding times at 72 °C, on the inactivation of *Mycobacterium paratuberculosis* in milk, 461
Greenman, J. *see* Stark, R.M.
Guimarães, C.T. *see* de Oliveira, V.M.

Hall, S. *see* Jordan, K.N.
Hamřik, J. *see* Čižek, A.
Hänninen, U. *see* Jalava, K.

Harrison, S.P. *see* Gandee, C.M.
Hasumi, F. *see* Kobo, M.
Hegarty, T. *see* McMahon, C.M.M.
Hernández, L., Ramírez, R., Hormaza, J.V., Madrazo, J. & Arrieta, J. The fate of *Salmonella enteritidis* PT4 in home-made mayonnaise prepared with critic acid, 41
Hielm, S. *see* Jalava, K.
Hill, C. *see* Galvin, M.
Hill, D.J. *see* Thomas, C.
Hill, W.E. *see* McCarthy, S.A.
Hirsch, P.R. *see* Lawlor, K.
Hirst, T.R. *see* Stark, R.M.
Hirvi, U. *see* Jalava, K.
Hogg, T. *see* Couto, J.A.
Holt, D.M. *see* McMath, S.M.
Hormaza, J.V. *see* Hernández, L.

Ibáñez, E. *see* Orejas, M.
Ibenegbu, C. *see* Okafor, N.
Ichise, R. *see* Sakagami, Y.
Imura, S. *see* Wasano, N.
Inouye, K. *see* Kobo, M.
Iriarte, J. *see* Ferrandis, M.D.
Isiegas, C., Parro, V. & Mellado, R.P. *Streptomyces lividans* as a host for the production and secretion of *Escherichia coli* TEM ß-lactamase, 321
Itoh, K. *see* Kobo, M.
Itoh, T. *see* Fujikawa, H.

Jalava, K., Hielm, S., Hirvi, U. & Hänninen, U. Evaluation of a molecular identification scheme based on 23S rRNA gene polymorphisms for differentiating canine and feline gastric *Helicobacter* spp., 269
Janardhana, G.R. *see* Satish, S.
Jayashree, T. & Subramanyam, C. Antiaflatoxigenic activity of eugenol is due to inhibition of lipid peroxidation, 179
Ji, G.E. *see* Lee, S.K.
Johnson, C.H. *see* Rice, E.W.
Johnson, P. *see* Smith, P.
Jones, C.R., Chamberlain, A.H.L. & Adams, M.R. An investigation of the presence of ultramicrocells in natural mineral water, 275
Jordan, K.N., Hall, S. & McClure, P.J. Osmotic stress on dilution of acid injured *Escherichia coli* O157:H7, 389

Kajimura, K. *see* Sakagami, Y.
Kanda, K., Ohderaotoshi, T., Shimojyo, A., Kato, F. & Murata, A. An extrachromosomal prophage naturally associated with *Bacillus thuringiensis* serovar *israelensis*, 305
Kang, D.H. & Fung, D.Y.C. Development and evaluation of a 24-well microtitre plate method for isolation of *Listeria* spp. or *Listeria monocytogenes* from foods, 280
Katbeh-Bader, A. *see* Khyami-Horani, H.
Kato, F. *see* Kanda, K.
Kaysner, C.A. *see* McCarthy, S.A.
Kennerman, E. *see* Carli, K.T.
Khyami-Horani, H., Katbeh-Bader, A. & Mohsen, Z.H. PCR for the detection of *Campylobacter* spp. in clinical specimens, 57
Kiernicka, J., Seignez, C. & Peringer, P. Evaluation of a commercial fluorochromic system for the rapid detection and estimation of wine lactic acid bacteria by DEFT, 27
Kobo, M., Itoh, K., Nishikawa, K., Hasumi, F. & Inouye, K. Mechanism of thermostability in thermolysin – analysis of subsite S2 mutant enzymes of thermolysin, 431
Kouvelis, V.N. *see* Zare, R.
Kouvelis, V.N., Zare, R., Bridge, P.D. & Typas, M.A. Differentiation of mitochondrial subgroups in the *Verticillium lecanii* species complex, 263
Kudo, T. *see* Ui, S.
Kuhad, R.C. *see* Singh, B.K.
Kuritz, T. An easy colorimetric assay for screening and qualitative assessment of deiodination and dehalogenation by bacterial cultures, 445
Kurokawa, K., Tani, K., Ogawa, M. & Nasu, M. Abundance and distribution of bacteria carrying *sltII* gene in natural river water, 405

Lamar, R.T. *see* Bogan, B.W.
Lanser, J.A. *see* Vanniasinkam, T.
Large, P.J. *see* Sherburn, R.E.
Lawlor, K., Chaudri, A.M., McGrath, S.P. & Hirsch, P.R. Gene transfer in bacteria from soils contaminated with heavy metals, 317
Leão, C. *see* Fernandes, L.
Lecadet, M.-M. *see* Ferrandis, M.D.
Lee, H.B. & Magan, N. Environmental factors and nutritional utilization patterns affect niche overlap indices between *Aspergillus ochraceus* and other spoilage fungi, 300
Lee, K.-K. *see* Liu, P.-C.
Lee, S.H. & Rho, Y.-T. Improvement of tylosin fermentation by mutation and medium optimization, 142
Lee, S.K., Ji, G.E. & Park, Y.H. The viability of bifidobacteria introduced into kimchi, 153
Lilenbaum, W., Esteves, A.L. & Souza, G.N. Prevalence and antimicrobial susceptibility of staphylococci isolated from saliva of clinically normal cats, 448
Literák, I. *see* Čížek, A.

Liu, P.-C. & Lee, K.-K. Cysteine protease is a major exotoxin of pathogenic luminous *Vibrio harveyi* in the tiger prawn, *Penaeus monodon*, 428
Logan, N.A. *see* Fletcher, P.

Mabey, M. *see* Thomas, C.
MacPhee, S. *see* Bennett, A.R.
Madrazo, J. *see* Hernández, L.
Magan, N. *see* Lee, H.B.
Mañas, P. *see* Pagán, R.
Mandlin, D. *see* Friedrich, J.
Manfio, G.P. *see* de Oliveira, V.M.
Mangena, T. & Muyima, N.Y.O. Comparative evaluation of the antimicrobial activities of essential oils of *Artemisia afra*, *Pteronia incana* and *Rosmarinus officinalis* on selected bacteria and yeast strains, 291
Massa, S., Goffredo, E., Altieri, C. & Natola, K. Requirement of Ca^{2+} for aflatoxin production: inhibitory effect of Ca^{2+} channel blockers on aflatoxin production by *Aspergillus parasiticus* NRRL 2999, 89
Mathur, J.M.S. *see* Peschin, A.
McCarthy, S.A., Depaola, A., Cook, D.W., Kaysner, C.A. & Hill, W.E. The degradation of sodium *O,O*-diethyl dithiophosphate by bacteria from metalworking fluids, 66
McClure, P.J. *see* Jordan, K.N.
McDowell, D.A. *see* McMahon, C.M.M.
McGrath, S.P. *see* Lawlor, K.
McKinlay, R. *see* Russell, D.
McMahon, C.M.M., Doherty, A.M., Sheridan, J.J., Blair, I.S., McDowell, D.A. & Hegarty, T. Synergistic effect of heat and sodium lactate on the thermal resistance of *Yersinia enterocolitica* and *Listeria monocytogenes* in minced beef, 340
McMath, S.M., Sumpter, C., Holt, D.M., Delanoue, A. & Chamberlain, A.H.L. The fate of environmental coliforms in a model water distribution system, 93
McMeekin, T. *see* Membré, J.-M.
Mellado, R.P. *see* Isiegas, C.
Membré, J.-M., Ross, T. & McMeekin, T. Behaviour of *Listeria monocytogenes* under combined chilling processes, 216
Meyer, M. & Tholozan, J.L. A new growth and *in vitro* sporulation medium for *Clostridium perfringens*, 98
Meyrand, A., Atrache, V., Bavai, C., Montet, M.P. & Vernozy-Rozand, C. Evaluation of an alternative extraction procedure for enterotoxin determination in dairy products, 411
Millar, M.R. *see* Stark, R.M.
Mimura, A. *see* Ui, S.
Mohsen, Z.H. *see* Khyami-Horani, H.
Montet, M.P. *see* Meyrand, A.
Montville, T.J., Chung, H.-J., Chikindas, M.L. & Chen, Y. Nisin A depletes intracellular ATP and acts in bactericidal manner against *Mycobacterium smegmatis*, 189
Moorhead, S.M. & Bell, R.G. Psychrotrophic clostridia mediated gas and botulinal toxin production in vacuum-packed chilled meat, 108
Morozumi, S. *see* Fujikawa, H.
Mucchetti, G. *see* Gatti, M.
Murata, A. *see* Kanda, K.
Muyima, N.Y.O. *see* Mangena, T.

Nakazato, M. *see* Fujikawa, H.
Nalawade, V.K. *see* Chitte, R.R.
Nasu, M. *see* Kurokawa, K.
Natola, K. *see* Massa, S.
Nevalainen, K.M.H. *see* Vincent, S.F.
Neviani, E. *see* Gatti, M.
Nic, S. *see* Smith, P.
Nishikawa, K. *see* Kobo, M.
Novák, P. *see* Cizek, A.

Ogawa, M. *see* Kurokawa, K.
Ohba, M. *see* Wasano, N.
Ohderaotoshi, T. *see* Kanda, K.
Ohkuma, M. *see* Ui, S.
Okafor, N., Okeke, B.C., Umeh, C. & Ibenegbu, C. Secretion of lysine in a broth medium by lactic bacteria and yeasts associated with garri production using a synthetic gene, 419
Okeke, B.C. *see* Okafor, N.
Orejas, M., Ibáñez, E. & Ramóon, D. The filamentous fungus *Aspergillus nidulans* produces an α-L-rhamnosidase of potential oenological interest, 383
Ouwehand, A.C. *see* Tuomola, E.M.

Pagán, R., Ma.
of potential oenological interest, 383
ion of lysine in a broth medium by lactic bacteria and yeasts associated with garri production using a*(tlh)* gene of *Vibrio parahaemolyticus*, 71
Palop, A. *see* Pagán, R.
Park, S.F. The use of *hipO*, encoding benzoylglycine amidohydrolase (hippuricase), as a reporter of gene expression in *Campylobacter coli*, 285
Park, Y.H. *see* Lee, S.K.
Parro, V. *see* Isiegas, C.
Payne, D.N, Babb, J.R. & Bradley, C.R. An evaluation of the suitability of the European suspension test to reflect *in vitro* activity of antiseptics against clinically significant organisms, 7
Peringer, P. *see* Kiernicka, J.

Perry, J.D. *see* Chilvers, K.F.
Peschin, A. & Mathur, J.M.S. Purification and characterization of β-glucosidase from *Aspergillus niger* strain 322, 401
Petruccioli, M., Pulci, V. & Federici, F. Itaconic acid production by *Aspergillus terreus* on raw starchy materials, 309
Pitman, R.S. *see* Stark, R.M.
Pitt, W.G. *see* Rediske, A.M.
Porcar, M. *see* Ferrandis, M.D.
Porter, A.J.R. *see* Dhillon, J.K.
Post, D. *see* Bennett, A.R.
Potts, L.F. *see* Stark, R.M.
Praveen, J., Rao, C. & Subramanyam, C. Reducing bacterial resistance to antibiotics with ultrasound, 85
Préstamo, G., Sanz, P.D., Fonberg-Broczek, M. & Arroyo, G. High pressure response of fruit jams contaminated with *Listeria monocytogenes*, 313
Pridmore, A.M., Devine, D.A., Bonass, W.A. & Silley, P. Influence of sample preparation technique on two-dimensional gel electrophoresis of proteins from *Porphyromonas gingivalis*, 245
Pulci, V. *see* Petruccioli, M.

Ramírez, R. *see* Hernández, L.
Ramón, D. *see* Orejas, M.
Rao, C. *see* Praveen, J.
Rapoport, N. *see* Rediske, A.M.
Raveesha, K.A. *see* Satish, S.
Rediske, A.M., Rapoport, N. & Pitt, W.G. Survival and chromate reducing ability of *Pseudomonas aeruginosa* in industrial effluents, 81
Reed, R.H. *see* Chilvers, K.F.
Rho, Y.-T. *see* Lee, S.H.
Rice, E.W., Rodgers, M.R., Wesley, I.V., Johnson, C.H. & Tanner, S.A. *Escherichia hermanii* – a new bacterial strain for chlorobenzene degradation, 31
Rice, W.C. Specific primers for the detection of vip3A insecticidal gene within a *Bacillus thuringiensis* collection, 378
Rodgers, M.R. *see* Rice, E.W.
Rose, N. *see* Soumet, C.
Rose, V. *see* Soumet, C.
Ross, R.P. *see* Galvin, M.
Ross, T. *see* Membré, J.-M.
Rovini, E. *see* Carducci, A.
Rowe, M.T. *see* Grant, I.R.
Russell, A.D. *see* Ayres, H.M.
Russell, D., Chard, J. & McKinlay, R. Effect of *Bacillus thuringiensis* and a pyrethroid insecticide on the leaf microflora of *Brassica oleracea*, 359

Sakagami, Y., Ichise, R., Kajimura, K. & Yokoyama, H. Inhibitory effect of creosote and its main components on production of verotoxin of enterohaemorrhagic *Escherichia coli* O157:H7, 118
Sala, F.J. *see* Pagán, R.
Salminen, S.J. *see* Tuomola, E.M.
Salvat, G. *see* Soumet, C.
Sanz, P.D. *see* Préstamo, G.
Satish, S., Raveesha, K.A. & Janardhana, G.R. Antibacterial activity of plant extracts on phytopathogenic *Xanthomonas campestris* pathovars, 145
Sawhney, S.K. *see* Yadav, A.S.
Seignez, C. *see* Kiernicka, J.
Seldin, L., Silva de Azevedo, F., Alviano, D.S., Alviano, C.S. & de Freire Bastos, M.C. Inhibitory activity of *Paenibacillus polymyxa* SCE2 against human pathogenic micro-organisms, 423
Sen, A. *see* Carli, K.T.
Sherburn, R.E. & Large, P.J. Isolation of endospore-forming bacilli toxic to *Culiseta longiareolata* (Diptera: Culicidae) in Jordan, 61
Sheridan, J.J. *see* McMahon, C.M.M.
Shimojyo, A. *see* Kanda, K.
Silley, P. *see* Pridmore, A.M.
Silva De Azevedo, F. *see* Seldin, L.
Singh, B.K. & Kuhad, R.C. Biodegradation of lindane (γ-hexachlorocyclohexane) by the white-rot fungus *Trametes hirsutus*, 238
Slavik, M.F. *see* Zheng, G.
Smid, E.J. *see* Bennik, M.H.J.
Smith, L.P. *see* Smith, P.
Smith, P., Carroll, C., Wilkins, B., Johnson, P., Nic, S., Gabhainn, L.P. & Smith, L.P. The effect of wind speed and direction on the distribution of sewage associated bacteria, 184
Smola, J. *see* Čižek, A.
Sobral, B.W.S. *see* de Oliveira, V.M.
Soumet, C., Ermel, G., Rose, N., Rose, V., Drouin, P., Salvat, G. & Colin, P. Evaluation of a Multiplex PCR assay for simultaneous indentification of *Salmonella* sp., *Salmonella* Enteritidis and *Salmonella* Typhimurium from environmental swabs of poultry houses, 113
Souza, G.N. *see* Lilenbaum, W.
Stark, R.M., Gerwig, G.J., Pitman, R.S., Potts, L.F., Williams, N.A., Greenman, J., Weinzweig, I.P., Hirst, T.R. & Millar, M.R. Biofilm formation by *Helicobacter pylori*, 121
Stewart, G.S.A.B. *see* Aldsworth, T.G.
Stouthamer, R. *see* van Meer, M.M.M.
Subramanyam, C. *see* Jayashree, T.
Subramanyam, C. *see* Praveen, J.

Sumpter, C. *see* McMath, S.M.
Szabo, E.A. & Cahill, M.E. Nisin and ALTA™ 2341 inhibit the growth of *Listeria monocytogenes* on smoked salmon packaged under vacuum or 100% CO_2, 373

Tamura, H. *see* Fujikawa, H.
Tani, K. *see* Kurokawa, K.
Tanner, S.A. *see* Rice, E.W.
Tholozan, J.L. *see* Meyer, M.
Thomas, C., Hill, D.J. & Mabey, M. Morphological changes of synchronized *Campylobacter jejuni* populations during growth in single phase liquid culture, 194
Tien, M. *see* Bogan, B.W.
Tripathi, A.K. *see* Ganguli, A.
Tseng, S.K. *see* Chang, Y.J.
Tuomola, E.M., Ouwehand, A.C. & Salminen, S.J. Human ileostomy glycoproteins as a model for small intestinal mucus to investigate adhesion of probiotics, 159
Typas, M.A. *see* Kouvelis, V.N.
Typas, M.A. *see* Zare, R.

Ui, S., Mimura, A., Ohkuma, M. & Kudo, T. Formation of a chiral acetoinic compound from diacetyl by *Escherichia coli* expressing *meso*-2,3-butanediol dehydrogenase, 457
Umeh, C. *see* Okafor, N.
Upadhyay, K.K. *see* Yadav, A.S.

van Elsas, J.D. *see* de Oliveira, V.M.
van Kan, F.J.P.M. *see* van Meer, M.M.M.
van Meer, M.M.M., van Kan, F.J.P.M. & Stouthamer, R. Effect of permeabilizers on antibiotic sensitivity of *Pseudomonas aeruginosa*, 17
van Overbeek, W. *see* Bennik, M.H.J.
Vanniasinkam, T., Lanser, J.A. & Barton, M.D. Failure to recover *Bacillus thuringiensis* from the Lützow-Holm Bay region of Antarctica, 52
Vashishat, R.K. *see* Yadav, A.S.
Vasudeva, M. *see* Yadav, A.S.
Vernozy-Rozand, C. *see* Meyrand, A.
Vincent, S.F., Bell, P.J.L., Bissinger, P. & Nevalainen, K.M.H. Comparison of melibiose utilizing baker's yeast strains produced by genetic engineering and classical breeding, 148

Wasano, N., Imura, S. & Ohba, M. Sub-lethal damage of *Listeria monocytogenes* after long-term chilled storage at 4°C, 49
Wauke, T. *see* Fujikawa, H.
Weinzweig, I.P. *see* Stark, R.M.
Wesley, I.V. *see* Rice, E.W.
Wilkins, B. *see* Smith, P.
Williams, A.G. *see* Beattie, S.H.
Williams, N.A. *see* Stark, R.M.
Withers, K.M. *see* Dykes, G.A.

Xie, G. *see* Xiong, R.
Xiong, R., Xie, G. & Edmondson, A.S. Isolation of *Arcobacter butzleri* from ground water, 36

Yadav, A.S., Vasudeva, M., Upadhyay, K.K., Sawhney, S.K. & Vashishat, R.K. Symbiotic effectiveness, rate of respiration and glutamine synthetase activity of sodium azide-resistant strains of *Rhizobium leguminosarum* biovar *trifolii*, 466
Yokoyama, H. *see* Sakagami, Y.

Zare, R. *see* Kouvelis, V.N.
Zare, R., Kouvelis, V.N., Typas, M.A. & Bridge, P.D. Presence of a 20 bp insertion/deletion in the ITS1 region of *Verticillium lecanii*, 258
Zheng, G. & Slavik, M.F. Isolation, partial purification and characterization of a bacteriocin produced by a newly isolated *Bacillus subtilis* strain, 363

Index of Subjects

A *hipO* reporter of gene expression (Park) 285
Adhesion of probiotics to mucus (Tuomola, Ouwehand & Salminen) 159
α-L-rhamnosidase production in *Aspergillus nidulans* (Orejas, Ibáñez & Ramón) 383
Antarctic *Bacillus* (Wasano, Imura & Ohba) 49
Antibacterial activity of plant extracts (Satish, Raveesha & Janardhana) 145
Antibiotic resistance in aquatic bacteria (Boon & Cattanach) 164
Arcobacter in ground water (Rice, Rodgers, Wesley, Johnson & Tanner) 31
Assay for deiodination by bacteria (Kuritz) 445

Bacillus thuringiensis var. *bolivia* (Ferrandis, Andrew, Porcar, Iriarte, Cosmao-Dumanoir, Lecadet, Caballero & Ferré) 440
Bacteria carrying *sltII* gene in natural river water (Kurokawa, Tani, Ogawa & Nasu) 405
Bacteriocin production by *Bacillus subtilis* (Zheng & Slavik) 363
β-glucosidase from *Aspergillus niger* (Peshin & Mathur) 401
Bio-degradation of lindane by *T. hirsutus* (Singh & Kuhad) 238
Biopreservation of mungbean sprouts (Bennik, van Overbeek, Smid & Gorris) 226
BLV-antibody in bovine urine and serum (Carli, Sen, Batmaz & Kennerman) 416

Ca^{2+} requirement for aflatoxin production (Praveen Rao & Subramanyam) 85
Campylobacter membrane protein (Connerton & Connerton) 233
Chilled *Listeria* sub-lethal damage (Dykes & Withers) 45
Clostridium perfringens medium (Meyer & Tholozan) 98
Control of *Listeria* in smoked salmon (Szabo & Cahill) 373
Cytotoxicity assay for *B. cereus* (Fletcher & Logan) 394
Cytotoxicity assay for *Bacillus* spp. (Beattie & Williams) 221

2D-page of *P. gingivalis* proteins (Pridmore, Devine, Bonass & Silley) 245
Detection of wine LAB by DEFT (Couto & Hogg) 23
DGGE of rDNA spacers of rhizobia (de Oliveira, Coutinho, Sobral, Guimarães, van Elsas & Manfio) 137
Dithiophosphate breakdown (Sherburn & Large) 61

E. coli O157:H7 in raw milk (Massa, Goffredo, Altieri & Natola) 89
Effect of creosote on *E. coli* O157:H7 (Sakagami, Ichise, Kajimura & Yokoyama) 118
Effect of heat and sodium lactate (McMahon, Doherty, Sheridan, Blair, McDowell & Hegarty) 340
Endospore-forming bacilli in Jordan (Khyami-Horani, Katbeh-Bader & Mohsen) 57
Environment effects on niche overlap of spoilage fungi (Lee & Magan) 300
Essential oil of antimicrobial activity (Mangena & Muyima) 291
Eugenol inhibits aflatoxin production (Jayashree & Subramanyam) 179
Extraction procedure of enterotoxin (Meyrand, Atrache, Bavai, Montet & Vernozy-Rozand) 411

Fate of coliforms in distribution (McMath, Sumpter, Holt, Delanoue & Chamberlain) 93
Flavobacterium psychrophilum (Daskalov, Austin & Austin) 297
Fungal humification of PAH (Bogan, Lamar, Burgos & Tien) 250

Gene transfer in polluted soils (Lawlor, Chaudri, McGrath & Hirsch) 317
Helicobacter pylori biofilm (Stark, Gerwig, Pitman, Potts, Williams, Greenman, Weinzweig, Hirst & Millar) 121

Identification of *Helicobacter* spp. (Jalava, Hielm, Hirvi & Hänninen) 269
Identification of *Salmonella* in poultry houses (Soumet, Ermel, Rose, Rose, Drouin, Salvat & Colin) 113
Improvement of tylosin production (Lee & Rho) 142
In vitro activity of antiseptics (Payne, Babb & Bradley) 7
Increased levansucrase production (Hernández, Ramírez, Hormaza, Madrazo & Arrieta) 41
Indicators of viral contamination (Carducci, Gemelli, Cantiani, Casini & Rovini) 207
Inhibition of *Mycobacterium smegmatis* by nisin (Montville, Chung, Chikindas & Chen) 189
Inhibitory substance of *P. polymyxa* (Seldin, Silva de Azevedo, Alviano & de Freire Bastos) 423
Insecticides and leaf microflora (Russell, Chard & McKinlay) 359
Iron and actinorhodin from *S. coelicolor* (Coisne, Béchet & Blondeau) 199
Isolation of *Listeria monocytogenes* or *Listeria* spp. (Kang & Fung) 280
Itaconic acid from starchy materials (Petruccioli, Pulci & Federici) 309

Keratinase from Streptomycetes (Chitte, Nalawade & Dey) 131

L. monocytogenes at low temperatures (Membré, Ross & McMeekin) 216
Lacticin 3147 active against bacterial pathogens (Galvin, Hill & Ross) 355

L-butanediol from diacetyl (Ui, Mimura, Ohkuma & Kudo) 457
Listeria monocytogenes contamination in jam (Préstamo, Sanz, Fonberg-Broczek & Arroyo) 313

Major exotoxin of pathogenic *Vibrio harveyi* (Liu & Lee) 428
Melibiose utilizing baker's yeasts (Vincent, Bell, Bissinger & Nevalainen) 148
Morphological changes of *Camp. jejuni* (Thomas, Hill & Mabey) 194
Mould growth in mineral water (Fujikawa, Aketagawa, Nakazato, Wauke, Tamura, Morozumi & Itoh) 211
MTS resistance of heat-shocked cells (Pagán, Mañas, Palop & Sala) 71

New chlorobenzene-degrading strain (Kiernicka, Seignez & Peringr) 27
Nutrient status and RpoS induction (Aldsworth, Dodd & Stewart) 255

PCR detection of campylobacters (Vanniasinkam, Lanser & Barton) 52
PCR primers for vip3A detection (Rice) 378
Peptidase activities in cheeses (Gatti, Fornasari, Mucchetti, Addeo & Neviani) 368
Permeabilizers and antibiotic sensitivity (Ayres, Furr & Russell) 13
Prophage in *B. thuringiensis* (Kanda, Ohderaotoshi, Shimojyo, Kato & Murata) 305
PYR test for *Salmonella* (Bennett, MacPhee, Betts & Post) 175

Recovery of stressed *E. coli* O157:H7 (Jordan, Hall & McClure) 389
Reducing antibiotic resistance (Rediske, Rapoport & Pitt) 81
Rhizobium meliloti in lucerne (Gandee, Harrison & Davies) 169
Ribotyping of *V. cholerae* O1 (Dalsgaard, Forslund & Fussing) 327
Role of TRP115 in TLN (Kubo, Itoh, Nishikawa, Hasumi & Inouye) 431
Rose Bengal in mycological media (Chilvers, Reed & Perry) 103

S. lividans producing *E. coli* β-lactamase (Isiegas, Parro & Mellado) 321
Salmonella in citric acid mayonnaise (Xiong, Xie & Edmondson) 36
Screening fungi for keratinase (Friedrich, Gradišar, Mandin & Chaumont) 127
Selective sugar consumption (Ciani & Fatichenti) 203
Shiga toxin-producing *E. coli* O157 (Čížek, Alexa, Literák, Hamřík, Novák & Smola) 435
Simultaneous nitrifying/denitrifying (Chang & Tseng) 453
Sodium azide-resistant strains of *Rh. leguminosarum* (Yadav, Vasudeva, Upadhyay, Sawhney & Vashishat) 466
SR2 variation of *Wolbachia* (van Meer, van Kan & Stouthamer) 17
Staphylococci from cats (Lilenbaum, Esteves & Souza) 448
STEC in sheep and lambs (Fegan & Desmarchelier) 335
Surface display of antibody fragments (Dhillon, Drew & Porter) 350
Survival and chromate reduction by *Pseudomonas* (Ganguli & Tripathi) 76
Synthetic lysine gene for garri (Okafor, Okeke, Umeh & Ibenegbu) 419

Thermal inactivation of *Myco. paratuberculosis* (Grant, Ball & Rowe) 461
Toxins in chilled meat vacuum packs (Moorhead & Bell) 108

Ultramicrocells in mineral water (Jones, Chamberlain & Adams) 275

V. parahaemolyticus tlh gene probes (McCarthy, DePaola, Cook, Kaysner & Hill) 66
Verticillium lecanii ITS (Zare, Kouvelis, Typas & Bridge) 258
Verticillium lecanii mtDNA (Kouvelis, Zare, Bridge & Typas) 263
Viability of bifidobacteria in kimchi (Lee, Ji & Park) 153

Wind movement of sewage bacteria in sea water (Smith, Carroll, Wilkins, Johnson, Nic Gabhainn & Smith) 184

Z. bailii, cell death, intracellular acidification (Fernandes, Côrte-Real & Leão) 345